WORK PLAN

FOR

WORK ASSIGNMENT NO. SERAS-089

PHASE 2 ASSESSMENT RIVERSIDE AVENUE SITE

May 19, 2010

WORK PLAN
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Prepared for
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA)/
ENVIRONMENTAL RESPONSE TEAM (ERT)

Date:	**May 19, 2010**
Contract No:	**EP-W-09-031**
Work Assignment No.:	**SERAS-089**

Approval:

SERAS Task Leader _____ Date: _____

SERAS Deputy Program Manager _____ Date: _____
(Cost Model Review)

SERAS Program Manager _____ Date: _____

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Work Assignment Number:	**SERAS-089**
Work Assignment Title:	**Phase 2 Assessment Riverside Avenue Site**
Work Assignment Manager:	**Donald Bussey**
Lockheed Martin SERAS Task Leader:	**Martin Ebel**
Duration:	**April, 2010 through December 31, 2010**
Contract Number:	**EP-W-09-031**
Site ID:	**02PC**

INTRODUCTION

Purpose: The United States Environmental Protection Agency(EPA)/Environmental Response Team (ERT) has requested Scientific, Engineering, Response and Analytical Services (SERAS) personnel support EPA Region 2 by providing technical assistance to evaluate the extent of soil and groundwater contamination at the 29 Riverside Avenue Site (Site) at 1700-1712 and 1702-1716 McCarter Highway, Newark, New Jersey (NJ). Soil and groundwater samples will be collected for laboratory analysis to determine the extent of the contamination and assess the potential of contamination migrating into the Passaic River.

Background. The Site is a former paint manufacturing facility located in an industrial area of Newark, NJ. The site consists of two buildings on approximately two acres. One building contains two abandoned 10,000-gallon above ground storage tanks (AST) containing hazardous waste, and the other building contains approximately one hundred 3,000 to 10,000-gallon ASTs. Ten 12,000-gallon underground storage tanks (USTs) containing hazardous waste, primarily volatile organic compounds (VOCs), are buried on the property.

In October 2009, the Birdsall Services Group business unit PMK Group (BSG/PMK) completed a site investigation (SI). The SI report included the results of their soil and groundwater sampling, review of a preliminary assessment conducted independently by Weston Solutions, and a geophysical investigation by Hager-Richter under contract with BSG/PMK.

Assumptions: Assumptions concerning the scope of work, deliverable and task dates, and cost were made on the basis of existing knowledge of the site and similar work done on other sites. A generic approach is presented in this Work Plan (WP). New information and data, additional tasks, and events outside SERAS control may result in revisions to the approach and schedule proposed in this WP. Changes in project schedule, priorities, and resource availability may also affect specific details of this WP. Also, the cost estimated to complete this project (including but not limited to labor, travel, materials, subcontractors, and analyses) may change as the project evolves.

All work assignment (WA) deliverables and other relevant information will be submitted in electronic format to the ERT Information Management System (IMS) website. Submission of deliverables to the website will be considered delivery to the WAM as of the date and time posted on the website.

The EPA/ERT Work Assignment Manager (WAM) will serve as the liaison to the property owner, general public and other agencies during implementation of this WA. The EPA On-Scene Coordinator (OSC), WAM or their contractors will arrange access to the property for the subsurface investigation and any other activities.

TECHNICAL APPROACH

Task 1: Prepare Pre-Mobilization Deliverables. The WP, Uniform Federal Policy - Quality Assurance Project Plan (UFP-QAPP), and site specific Health and Safety Plan (HASP) will be prepared, reviewed, and approved prior to mobilization to the site.

Task 2: Soil Sampling. Soil samples will be collected from up to two depths from ten soil borings at locations based on previous investigations (Figure 1). Soil borings will be advanced using direct-push methods and the soil will be described using the modified Burmister System. The soil will be screened with a photoionization detector (PID) and a flame ionization detector (FID) and any apparent indications of contamination (visual or olfactory) will be documented along with the PID and FID responses. Samples will be collected from recovered soil with an elevated PID or FID response, apparent contamination or from above and below the water table. The samples will be shipped to a Contract Laboratory Program (CLP) laboratory for VOC, semivolatile compound (SVOC) and Resource Conservation and Recovery Act (RCRA) metal analysis.

Task 3: Groundwater Sampling. Ten groundwater samples will be collected from temporary disposable polyvinyl chloride (PVC) piezometers installed in or adjacent to the soil borings. The piezometers will be advanced in the borings using direct-push methods, and the screened interval will span the water table. The piezometers will be purged by pumping three volumes of water. The groundwater samples will be shipped to a CLP laboratory for VOC, SVOC and RCRA metal analysis.

Task 4: Geospatial Positioning Satellite (GPS) Survey. All sample locations, as well as selected site features, will be located using GPS technology. Digital photographs will be taken to document the sampling locations.

Task 5: Technical Memorandum. A technical memorandum (TM) will be produced to describe the results of this investigation. The TM will include the analytical data from the laboratory analysis of the samples and an interpretation of these results. The interpretation will include the potential for release of contaminants into the Passaic River.

Additional Tasks. There is a potential that there are numerous underground utilities at the site, and possibly product lines. Utilities on the site are not likely to be covered through the New Jersey One-Call system and are hazards to subsurface investigations. It is also recommended that the boring locations are cleared using geophysical methods. It is also recommended that the TL visit the site prior to intrusive activities.

Quality Assurance Project Plan. Project management, measurement, assessment and usability elements applicable to this WA are included in the corresponding site-specific UFP-QAPP.

Standard Operating Procedures. Standard operating procedures (SOPs) and Administrative Procedures (APs) relevant to this WA are included in the project-specific UFP-QAPP. SERAS personnel will adhere to the following SERAS health and safety SOPs for this WA:

- SOP #3001, *SERAS Health and Safety Program Policy and Implementation*
- SOP #3010, *SERAS Personal Safety/Protective Equipment*
- SOP #3011, *SERAS Respiratory Protective Program*
- SOP #3012, *SERAS Health and Safety Guidelines for Activities at Hazardous Waste Sites*
- SOP #3020, *Inclement Weather, Heat Stress and Cold Stress*

STAFFING PLAN AND SCHEDULE

Staffing Plan. The Task Leader (TL) will maintain contact with the WAM to provide information on the technical and financial progress of the project. This communication will commence with the issuance of the WA. Activities will be summarized in appropriate format for inclusion in SERAS Monthly Reports.

This WA was received on April 28, 2010. The WP was completed within 20 days after receiving the WA. The project will be completed by December 31, 2010.

The TL/Quality Control (QC) Coordinator for the project is the primary point of contact with the WAM. The TL/QC Coordinator is responsible for development and completion of the WP and UFP-QAPP; project team organization, supervision of all project tasks (including reporting and deliverables), ensuring field adherence to the WP and UFP-QAPP, and recording any deviations on a Change Form.

The SERAS Quality Assurance/Quality Control (QA/QC) Officer, Health and Safety Officer, Deputy Program Manager and Program Manager are responsible for auditing and guiding the project team, reviewing and auditing the deliverables, and proposing corrective action, if necessary, for conformity to the WP, QAPP, and HASP.

The following SERAS personnel will work on this project:

Personnel	Responsibility	Level of Responsibility
Task Leader	Project Planning/Field Support Report Writing	****
Environmental Scientist	Technical Support	**
Environmental Technician	Well Drilling/Technical Support	##
QA/QC Officer	WP and QAPP Review	****
Program Manager	Document Review/Technical Support	****
Health and Safety Officer	Review H&S Planning and provide WA H&S Support And training as needed	****
Deputy Program Manager	Document Review and Technical Support	***
Business Manager	Cost Estimate Preparation	***
Purchasing/Procurement	Purchase Material and Services	***
GIS/Autocad Specialist	Map Generation/Archive Reports	**
Administrative Support	Logistical Support & Admin	**
Clerical	Miscellaneous clerical	#

Other SERAS technical and administrative personal and subcontractors may work on the project as needed.

Schedule of Activities and Deliverables. The tentative schedule of activities and deliverables is as follows:

Item:	Date:
WP	May 19, 2010
UFP-QAPP	June 21, 2010
HASP	June 14, 2010
Soil Sampling	June 23 and 24, 2010
Groundwater Sampling	June 25, 2010
Final Analytical Report	Six weeks after last sample sent to laboratory
Technical Memorandum	Four weeks after receipt of validated data

Project deliverable dates are estimated based on the information available at the time of WP completion. New information, additional tasks and events outside SERAS control may result in revisions to these dates.

Training and Conference/Meeting/Seminar Attendance. In the course of performing the above tasks, SERAS personnel may attend training offered by the EPA such as safety training, training for procedural changes made by the EPA or training offered by outside vendors of specific equipment or instrumentation. Specific training instruction will be authorized in advance by the ERT SERAS Project Officer and approved by the Contracting Officer. As authorized by the Project Officer and approved by the Contracting Officer, SERAS personnel may attend a technical conference, meeting, or seminar to perform or support WA activities. For the ERT to successfully fulfill their mission to share and disseminate scientific information, SERAS scientists will provide technical support to prepare (and present as necessary) technical papers/posters at scientific meetings or conferences.

LEVEL OF EFFORT AND COST PROJECTIONS

The estimated costs, including labor and travel, to complete this WA are given in the attached cost summary sheet. Computer database, photo documentation, and administrative support will be required to accomplish WA objectives. Labor hours for these activities are included in the cost estimate. Current projected labor hours are 235 for all of the work included in this WP, which is the hours allocated in the work assignment.

Vendor Services. Vendor services are currently not anticipated under this WA.

Travel assumptions are as follows:

Number of trips from Edison, NJ to Newark, NJ	2
Number of days/trip	1 to 3 days per trip
Number of personnel	1 to 3 people per trip